#### PATENT COOPERATION TREATY

## **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference ST005PCT	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/AU2004/001082	International filing date (day/month/year) 13 August 2004 (13.08.2004)	Priority date (day/month/year) 31 October 2003 (31.10.2003)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant SAINTECH PTY LTD					

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis</i> .1(a).					
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.					
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
3.	. This report contains indications relating to the following items:					
	Box No. I	Basis of the report				
	Вох №. П	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on the international application				
4.	1. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).					
		Date of issuance of this report 01 May 2006 (01.05.2006)				

Authorized officer

Telephone No. +41 22 338 87 40

Dorothée Mülhausen

Facsimile No. +41 22 740 14 35 Form PCT/IB/373 (January 2004)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

#### PATENT COOPERATION TREATY

REC'D 16 NOV 2004 From the: WIPO 'INTERNATIONAL SEARCHING AUTHORITY PCT Darren Gardner c/- Saintech Pty Ltd WRITTEN OPINION OF THE Unit 6, 43 College Street INTERNATIONAL SEARCHING AUTHORITY Gladesville NSW 2111 (PCT Rule 43bis.1) Date of mailing 5 NOV 2004 (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION ST005PCT See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/AU2004/001082 13 August 2004 31 October 2003 International Patent Classification (IPC) or both national classification and IPC Int. Cl. 7 H01J 37/08, 27/02 Applicant SAINTECH PTY LTD et al This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220.

Authorized Officer

Telephone No. (02) 6283 2754

JULIA HU

PO BOX 200, WODEN ACT 2606, AUSTRALIA

Name and mailing address of the IPEA/AU

AUSTRALIAN PATENT OFFICE

Facsimile No. (02) 6285 3929

E-mail address: pct@ipaustralia.gov.au

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2004/001082

Box	No. I	Basis of the opinion			
1.	With regar	rd to the language, this opinion has been establishe vas filed, unless otherwise indicated under this item.	ed on the basis of the international application in the language in		
	the fo	opinion has been established on the basis of a trans ollowing language , which is the la national search (under Rules 12.3 and 23.1(b)).	slation from the original language into anguage of a translation furnished for the purposes of		
2.	With regar	rd to any nucleotide and/or amino acid sequence exention, this opinion has been established on the ba	e disclosed in the international application and necessary to the pasis of:		
. •	a. type of	f material			
		a sequence listing			
		table(s) related to the sequence listing	•		
		of material	·		
		in written format in computer readable form	•		
		f filing/furnishing			
		contained in the international application as filed.			
•	_ <u>_</u> _ 1	filed together with the international application in c	computer readable form.		
	1	furnished subsequently to this Authority for the pur	rposes of search.		
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4.	Additional	comments:			
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# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2004/001082

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
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#### 1. Statement

Novelty (N)	Claims 1-30	. YES
	Claims	NO
Inventive step (IS)	Claims 1-30	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-30	YES
	Claims	NO

### 2. Citations and explanations:

### NOVELTY (N) AND INVENTIVE STEP (IS) claims 1-30

The invention of the claims is an ion source operated with a control system that generates an anode voltage comprising a mains rectified signal such that the anode voltage modulates between a first voltage above a threshold and a second voltage below the threshold, which can prevent the unnecessary cut out of the power supply due to spurious events in the vacuum chamber.

All the documents cited in the International Search Report were category A only. No individual citation or obvious combination of citations disclose or fairly suggest such an ion source control system.